

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-144762

(43)Date of publication of application : 04.06.1996

(51)Int.Cl.

F02B 17/00

F02B 23/08

F02B 23/10

F02M 61/14

F02M 61/18

F02M 61/18

F02M 69/04

(21)Application number : 06-281049

(71)Applicant : NISSAN MOTOR CO LTD

(22)Date of filing : 16.11.1994

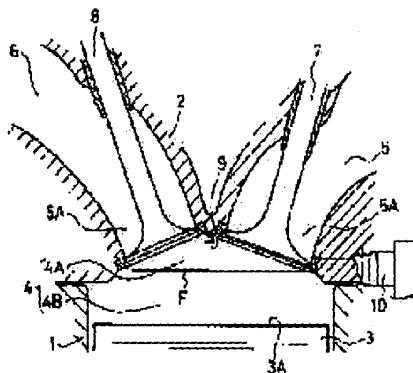
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(54) DIRECT INJECTION TYPE SPARK IGNITION INTERNAL COMBUSTION ENGINE

(57)Abstract:

PURPOSE: To quickly realize stratification of air-fuel mixture by supplying fuel into a combustion chamber while preventing a fuel droplet from adhering to a piston or the like and forming a wall flow.

CONSTITUTION: A fuel injection valve 10 disposed on the lower side of a cylinder head 2 injects fuel through a pair of jet orifices obliquely bored on the forward end side thereof when it reaches the vicinity of ignition timing. Fuel jetted from one jet orifice and fuel from the other jet orifice collide with each other to be atomized and form flat fuel spray F which is substantially horizontal to the crown surface 3A of a piston 3 and spread substantially fan-like. The flat fuel spray F is quickly gasified to form air-fuel mixture. The air-fuel mixture is pushed up to the spark plug 9 side by the piston 3 to realize stratification.



LEGAL STATUS

[Date of request for examination] 22.09.1999
[Date of sending the examiner's decision of rejection]
[Kind of final disposal of application other than the examiner's
decision of rejection or application converted registration]
[Date of final disposal for application]
[Patent number]
[Date of registration]
[Number of appeal against examiner's decision of rejection]
[Date of requesting appeal against examiner's decision of
rejection]
[Date of extinction of right]

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